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(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JANSSEN, Erwin** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **REEFMAN, Derk** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: **ELEVELD, Koop, J.**; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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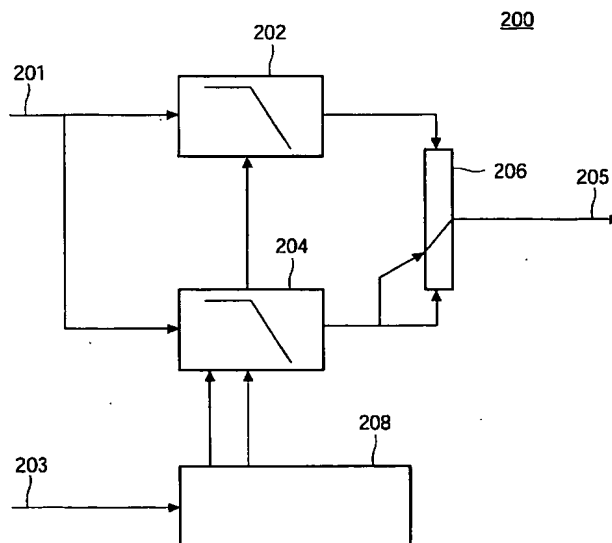
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(54) Title: **ADAPTIVE FILTERING**



(57) Abstract: An adaptive filtering device and method where at least one adaptive filter receives an input signal and a metering device receives an output of the at least one adaptive filter, monitors a characteristic of the output, such as power of high-frequency components, and forwards a correction signal in a feedback loop to adjust the characteristic of the at least one filter in order to change the characteristic of the output. An adaptive filtering device (200) and method where two low-pass FIR filters (202, 204) receive an input signal, a weighted adder (206) receives outputs from the two low-pass FIR filters and changes a weighting of each to produce filtered output data, and a controller (208) that receives a cutoff frequency (203), supplies the cut-off frequency to the two low-pass FIR filters, and supplies a signal to the weighted adder for varying the weighting of each of the low-pass FIR filters to switch therebetween.

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